

a powder phase comprising a boron nitride powder having a thermal diffusivity of from about $0.15 \text{ cm}^2/\text{s}$ to about $0.20 \text{ cm}^2/\text{s}$ and an average particle size of from about $2 \text{ }\mu\text{m}$ to about $20 \text{ }\mu\text{m}$, wherein the powder phase is distributed homogeneously within the polymer.

18. (New) The polymer blend according to claim 17, wherein the polymer is a melt-processable polymer.

19. (New) The polymer blend according to claim 17, wherein the polymer is selected from the group consisting of polyesters, phenolics, silicone polymers, acrylics, waxes, thermoplastic polymers, low molecular weight fluids, and epoxy molding compounds.

20. (New) The polymer blend according to claim 17, wherein the boron nitride powder comprises agglomerates of boron nitride particles having an average agglomerate size of from about 20 microns to about 500 microns.

21. (New) The polymer blend according to claim 20, wherein the majority of boron nitride agglomerates have an average agglomerate size of from about 30 microns to about 105 microns.

22. (New) The polymer blend according to claim 17, wherein the boron nitride powder has a tap density of about 0.7 g/cc to about 0.9 g/cc .
